

FORM PTO-1449

INFORMATION DISCLOSURE CITATION

Attorney Docket  
AR138-XSerial Number  
09/204,238Applicant  
HAMILTON, NORMAN, WUFiling Date  
12/3/98Group Art Unit  
1614

## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub-Class	Translation
<i>u</i>	AA	WO 98 55090 A	12/10/98	PCT			YES
	AB	WO 96 40633 A	12/19/96	PCT			YES
	AC	WO 92 00278 A	1/9/92	PCT			YES
	AD	EP 0 769 498 A	4/23/97	EPO			YES
	AE	JP 56 061390 A	5/26/81	Japan			NO
<i>u</i>	AF	EP 0 006 633 A	1/9/80	EPO			YES

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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Examiner

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Date Considered

*u/29/99*

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## U.S. PATENT DOCUMENTS

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<i>W</i>	AA	5,646,167	7/8/97	MacPherson et al.			6/7/95
<i>W</i>	AB	5,840,736	11/24/98	VERTEX			
<i>W</i>	AC	5,811,434	09/22/98	VERTEX			

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub-Class	Translation
<i>W</i>	AD	WO 98/55091	10/12/98	PCT			Yes
	AE	WO 98/37885	03/09/98	PCT			Yes
	AF	WO 98/29117	03/07/98	PCT			Yes
	AG	WO 98/24805	11/06/98	PCT			Yes
	AH	WO 98/22432	28/05/98	PCT			No
	AI	WO 98/20893	22/05/98	PCT			Yes
	AJ	WO 98/20892	22/05/98	PCT			Yes
	AK	WO 98/20891	22/05/98	PCT			Yes
	AL	WO 98/13343	02/04/98	PCT			Yes
	AM	WO 98/08827	05/03/98	PCT			Yes
	AN	WO 97/38008	16/10/97	PCT			Yes
	AO	WO 97/36869	09/10/97	PCT			Yes
	AP	WO 97/23458	03/07/97	PCT			Yes
	AQ	WO 97/23202	03/07/97	PCT			Yes
	AR	WO 96/41609	27/12/96	PCT			Yes
	AS	WO 96/40140	19/12/96	PCT			Yes
	AT	WO 96/20949	11/07/96	PCT			Yes
	AU	WO 96/20725	11/07/96	PCT			Yes
	AV	WO 95/35367	28/12/95	PCT			Yes
	AW	WO 95/35308	28/12/95	PCT			Yes
	AX	WO 95/34303	21/12/95	PCT			Yes
	AY	WO 95/24385	14/09/95	PCT			Yes
<i>W</i>	AZ	WO 95/12572	11/05/95	PCT			Yes

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<i>u</i>	BA	WO 95/12398	11/05/95	PCT			Yes
	BB	WO 94/15900	21/07/94	PCT			Yes
	BC	WO 94/14428	07/07/94	PCT			Yes
	BD	WO 94/13629	23/06/94	PCT			Yes
	BE	WO 94/03476	17/03/94	PCT			Yes
	BF	WO 94/05639	17/02/94	PCT			Yes
	BG	WO 93/18736	30/09/93	PCT			No
	BH	WO 93/14762	05/08/93	PCT			Yes
	BI	WO 93/13066	08/07/93	PCT			Yes
	BJ	WO 92/21313	10/12/92	PCT			Yes
	BK	WO 92/19745	12/11/92	PCT			Yes
	BL	WO 92/19593	12/11/92	PCT			No
	BM	WO 92/18478	29/10/92	PCT			Yes
	BN	WO 92/11850	23/07/92	PCT			Yes
	BO	WO 92/11245	09/07/92	PCT			Yes
	BP	WO 92/04370	19/03/92	PCT			Yes
	BQ	WO 89/06234	13/07/89	PCT			Yes
	BR	WO 88/09789	15/12/88	PCT			Yes
	BS	WO 88/00040	14/01/88	PCT			Yes
	BT	WO 85/04577	11/02/98	PCT			Yes
	BU	EP 823419	01/12/93	EP			Yes
	BV	EP 572365	23/12/92	EP			Yes
	BW	EP 519819	25/02/92	EP			No
	BX	EP 494005	08/07/92	EP			No
	BY	EP 476933	25/03/92	EP			Yes
	BZ	EP 471135	19/02/92	EP			Yes
	BAA	EP 443983	28/08/91	EP			No
	BAB	EP 378318	18/07/90	EP			Yes
<i>u</i>	BAC	EP 088350	14/09/83	EP			Yes

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u	CA	EP 074070	16/03/83	EP			No
	CB	EP 073143	02/03/83	EP			Yes
	CC	EP 061684	06/10/82	EP			Yes
	CD	EP 050800	05/05/82	EP			Yes
	CE	EP 048159	24/03/82	EP			Yes
	CF	EP 012401	25/06/80	EP			Yes
u	CG	DE 4425950	25/01/96	DE			No

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u	CH		Artico, Marino et al., "Synthesis of Pyrrol Aryl Sulfones Targeted at the HIV-1 Reverse Transcriptase," <u>Arch. Pharm.</u> , 1995, 328(3), 223-9.
u	CI		Dawson, T. et al., "Immunosuppressant RK506 enhances phosphorylation of nitric oxide synthase and protects against glutamate neurotoxicity," <u>Proc. Nat. Acad. Sci.</u> , 1993, 90, 9808-12.
u	CJ		Dawson, T. et al., "The immunophilins, FK506 binding protein and cyclophilin, are discretely localized in the brain: relationship to calcineurin," <u>Neuroscience</u> , 1994, 62, 569-80.
u	CK		DeRuiter, Jack et al., "In Vitro Aldose Reductase Inhibitory Activity of Substituted N-Benzenesulfonyl-glycine Derivatives," <u>J. Pharm. Sci.</u> , 1987, 76(2), 149-52.
u	CL		Gold, B. et al., "Regulation of the Transcription Factor c-JUN by nerve growth factor in adult sensory neurons," <u>Neuroscience Letters</u> , 1993, 154, 129-33.
u	CM		Gold, B. et al., "Regulation of aberrant neurofilament phosphorylation in neuronal perikarya. IV. Evidence for the involvement of two signals," <u>Brain Research</u> , 1993, 626, 23-30.
u	CN		Gold, B. et al., "The immunosuppressant FK506 increases functional recovery and nerve regeneration following peripheral nerve injury," <u>Restorative Neurology and Neuroscience</u> , 1994, 6, 287-96.

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Gold, B. et al., "The immunosuppressant FK506 increases the rate of axonal regeneration in rat sciatic nerve," J. Neuroscience, 1995, 15, 7509-16.

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Hamilton, Gary S. and Steiner, Joseph P., "Neuroimmunophilin Ligands as Novel Therapeutics for the Treatment of Degenerative Disorders of the Nervous System," 1-71.

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DDIwabuchi, Tokuro et al., "Effects of immunosuppressive peptidyl-prolyl *cis-trans* isomerase (PPIase) inhibitors, cyclosporin A, FK506, ascomycin and rapamycin, on hair growth initiation in mouse: immunosuppression is not required for new hair growth," J. Dermatol. Sci., 1995, 9, 64-69.u  
DEJiang, Hong et al., "Induction of Anagen in Telogen Mouse Skin by Topical Application of FK506, a Potent Immunosuppressant," J. Invest. Dermatol., 1995, 104, 523-25.u  
DFJones, T. et al., "Chemistry of Tricarbonyl Hemiketals and Application of Evans Technology to the Total Synthesis of the Immunosuppressant (-)-FK-506," J. Am. Chem. Soc., 1990, 112(8), 2998-3017.u  
DGKitamura et al., "Suppressive Effect of FK-506, a Novel Immunosuppressant, Against MPTP-Induced Dopamine Depletion in the Striatum of Young C57BL/6 Mice," J. Neuroimmunology, 1994, 50, 221-24.u  
DHLyons, W. E. et al., "Immunosuppressant FK506 promotes neurite outgrowth in cultures of PC 12 cells and sensory ganglia," Proc. Nat. Acad. Sci., 1994, 91, 3191-95.u  
DILyons, W. E. et al., "Neuronal Regeneration Enhances the Expression of the Immunophilin FKBP-12," J. Neuroscience, 1995, 15(4), 2985-94.u  
DJRyba et al., "Cyclosporin A Prevents Neurological Deterioration of Patients with SAH - A Preliminary Report," Acta Neurochirurgica, 1991, 112, 25-27.

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u	EA		Shiga et al., "Cyclosporin A Protects Against Ischemia-Reperfusion Injury in the Brain," <u>Brain Research</u> , 1992, 595, 145-48.
			Snyder, S. and Sabatini, D., "Immunophilins and the Nervous System," <u>Nature Medicine</u> , 1995, 1, 32-37.
			Steiner, J. et al., "High brain densities of the immunophilin FKBP colocalized with calcineurin," <u>Nature</u> , 1992, 358, 584-7.
u	ED		Steiner, J. et al., "Nonimmunosuppressive ligands for neuroimmunophilins promote nerve extension <i>in vitro</i> and <i>in vivo</i> ," <u>Society for Neuroscience Abstracts</u> , 1996, 22, 297.
u	EE		Steiner, J. et al., "Neurotrophic immunophilin ligands stimulate structural and functional recovery in neurodegenerative animal models," <u>Proc. Nat. Acad. Sci.</u> , 1997, 94, 2019-24.
u	EF		Steiner, J. et al., "Neurotrophic actions of nonimmunosuppressive analogues of immunosuppressive drugs FK506, rapamycin and cyclosporin A," <u>Nature Medicine</u> , 1997, 421-28.
u	EG		Teichner et al., "Treatment with Cyclosporin A Promotes Axonal Regeneration in Rats Submitted to Transverse Section of the Spinal Cord," <u>Int'l J. Brain Research &amp; Neurobio.</u> , 1993, 34(3), 343-349.
u	EH		Yamamoto, Satoshi et al., "Stimulation of Hair Growth by Topical Application of FK506, a Potent Immunosuppressive Agent," <u>J. Invest. Dermat.</u> , 1994, 102(2), 160-64.

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Group Art Unit

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u	AA	Hidaka, Chemical Abstracts, vol. 127:190760. (1997)
	AB	Kojima, Chemical Abstracts, vol. 128:88717. (1997)
	AC	Faull, Chemical Abstracts, vol. 125:114690. (1996)
	AD	Mills, Chemical Abstracts, vol. 121:255830. (1994)
	AE	Mills, 94:77716 USPATFULL. (1994)
	AF	Iwata, Chemical Abstracts, vol. 116:214491. (1992)
	AG	Tamura, 87:3319 USPATFULL. (1987)
	AH	Zook, Chemical Abstracts, vol. 127:108945. (1997)
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	AM	Greenlee, Chemical Abstracts, vol. 122:31563. (1995)
	AN	Ashton, Chemical Abstracts, vol. 122:10062. (1995)
u	AO	MacPherson, Chemical Abstracts, vol. 122:314456. (1995)

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<i>u</i>	BA	Mills, Chemical Abstracts, vol. 120:315159. (1994)
	BB	Wu, Chemical Abstracts, vol. 120:323484. (1994)
	BC	Ashton, Chemical Abstracts, vol. 118:234089. (1993)
	BD	Bringmann, Chemical Abstracts, vol. 117:22613. (1992)
	BE	Ryan, 88:53796 USPATFULL. (1988)
	BF	Gante, Chemical Abstracts, vol. 105:133909. (1986)
	BG	Henning, 86:66385 USPATFULL. (1986)
	BH	Henning, 85:26922 USPATFULL. (1985)
	BI	Henning, Chemical Abstracts, vol. 99:88067. (1983)
	BJ	Ryan, Chemical Abstracts, vol. 97:163506. (1982)
	BK	Mitsubishi, Chemical Abstracts, vol. 95:115553. (1981)
	BL	Shigematsu, Chemical Abstracts, vol. 93:168254. (1980)
	BM	Shigematsu, Chemical Abstracts, vol. 93:114517. (1980)
	BN	Shigematsu, Chemical Abstracts, vol. 93:46682. (1980)
<i>u</i>	BO	Shigematsu, 80:52581 USPATFULL. (1980)

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CA57:3558e CAOLD (1958)

324406 Beilstein. (1952)

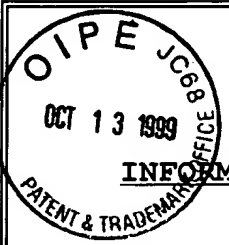
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<i>ea</i>	AA	5,898,029	04/27/99	Lyons et al.		04/12/94
	AB	5,874,449	02/23/99	Hamilton et al.		12/31/96
	AC	5,859,031	01/12/99	Hamilton et al.		05/21/96
	AD	5,846,981	12/08/98	Steiner et al.		01/23/97
	AE	5,846,979	12/08/98	Hamilton et al.		02/28/97
	AF	5,843,960	12/01/98	Steiner et al.		01/23/97
	AG	5,801,197	09/01/98	Steiner et al.		05/13/96
	AH	5,801,187	09/01/98	Li et al.		09/25/96
	AI	5,798,355	08/25/99	Steiner et al.		06/07/95
	AJ	5,795,908	08/18/98	Hamilton et al.		01/23/97
	AK	5,786,378	07/28/98	Hamilton et al.		09/25/96
	AL	5,780,484	07/14/98	Zelle et al.		11/13/96
	AM	5,744,485	04/28/98	Zelle et al.		01/23/95
	AN	5,665,774	09/09/97	Armistead et al.		03/08/93
	AO	5,629,325	05/13/97	Lin et al.		06/06/96
	AP	5,536,737	07/16/96	Kobayashi et al.		11/17/93
	AQ	5,128,483	07/07/92	Trybulski et al.		05/08/91
	AR	4,766,138	08/23/88	Ryan et al.		10/31/86
	AS	4,624,962	11/25/86	Henning et al.		02/01/85
	AT	4,472,380	09/18/84	Harris et al.		09/27/82
	AU	4,426,441	01/17/84	Adin et al.		12/03/82
<i>u</i>	AV	4,374,829	02/22/83	Harris et al.		02/17/81

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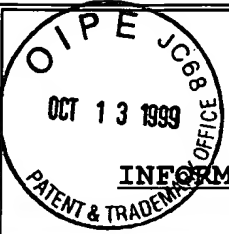
Document Number	Date	Country	Class	Sub-Class	Translation
<i>u</i>	AW	WO 99/10340	03/04/99		Yes
<i>u</i>	AX	WO 98/08814	03/02/98		Yes

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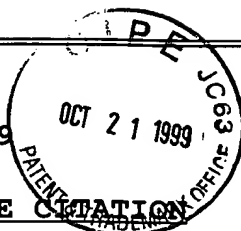
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<i>W</i>	BA	WO 97/49695	12/31/97		/		Yes
<i> </i>	BB	WO 97/48681	12/24/97			Yes	
<i> </i>	BC	WO 97/20554	12/06/97			Yes	
<i> </i>	BD	WO 96/06846	03/07/96			Yes	
<i> </i>	BE	WO 94/12474	06/09/94			No	
<i> </i>	BF	DE 197 42 263	09/25/97			No	
<i>W</i>	BG	DE 3636278	10/24/86			No	
<b>OTHER</b> (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>W</i>	BH		Gudasheva, T.A. et al., "Synthesis and anti-amnesic activity of a series of N-acylprolyl-containing dipeptides," <u>Eur. J. Med. Chem.</u> , 31 (1996), 151-7.				
<i>W</i>	BI		Dunkerton, Lois V., and Ahmad, Riad M., "Synthetic Approaches to Bicyclomycin I. Preparation of Monocyclic Intermediates by Retrograde Michael Cleavage of 6-Alkyl-6-Methoxyhexahydro-3H-Thiazolo [3,4-a] Pyrazine-5, 8-Diones," <u>Tetrahedron Lett.</u> , 21 (1980), 1803-06.				
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	AK	5,786,378	07/28/98	Hamilton et al.			09/25/96
	AL	5,780,484	07/14/98	Zelle et al.			11/13/96
	AM	5,744,485	04/28/98	Zelle et al.			01/23/95
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	AO	5,629,325	05/13/97	Lin et al.			06/06/96
	AP	5,536,737	07/16/96	Kobayashi et al.			11/17/93
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	AR	4,766,138	08/23/88	Ryan et al.			10/31/86
	AS	4,624,962	11/25/86	Henning et al.			02/01/85
	AT	4,472,380	09/18/84	Harris et al.			09/27/82
	AU	4,426,441	01/17/84	Adin et al.			12/03/82
<i>u</i>	AV	4,374,829	02/22/83	Harris et al.			02/17/81

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<i>u</i>	AW	WO 99/10340	03/04/99				Yes
<i>u</i>	AX	WO 98/08814	03/02/98				Yes

Examiner

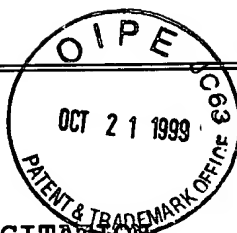
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*11/29/99*

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FORM PTO-1449

**INFORMATION DISCLOSURE CITATION**Attorney Docket  
AR138-XSerial Number  
09/204,238Applicant  
HAMILTON, NORMAN, WUFiling Date  
12/3/98Group Art Unit  
1612**FOREIGN PATENT DOCUMENTS**

		Document Number	Date	Country	Class	Sub-Class	Translation
<i>n</i>	BA	WO 97/49695	12/31/97				Yes
	BB	WO 97/48681	12/24/97				Yes
	BC	WO 97/20554	12/06/97				Yes
	BD	WO 96/06846	03/07/96				Yes
	BE	WO 94/12474	06/09/94				No
	BF	DE 197 42 263	09/25/97				No
<i>n</i>	BG	DE 3636278	10/24/86				No

**OTHER** (Including Author, Title, Date, Pertinent Pages, etc.)

<i>n</i>	BH		Gudasheva, T.A. et al., "Synthesis and anti-amnesic activity of a series of N-acylprolyl-containing dipeptides," <u>Eur. J. Med. Chem.</u> , 31 (1996), 151-7.
<i>n</i>	BI		Dunkerton, Lois V., and Ahmad, Riad M., "Synthetic Approaches to Bicyclomycin I. Preparation of Monocyclic Intermediates by Retrograde Michael Cleavage of 6-Alkyl-6-Methoxyhexahydro-3H-Thiazolo [3,4-a] Pyrazine-5, 8-Diones," <u>Tetrahedron Lett.</u> , 21 (1980), 1803-06.

Examiner

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*11/29/99*

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12/3/98Group Art Unit  
1614

## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date
W	AA	5,721,256	2/24/98	Hamilton et al.			2/12/97
	AB	5,717,092	2/10/98	Armistead et al.			3/29/96
	AC	5,714,510	2/3/98	Proctor			6/5/95
	AD	5,703,088	12/30/97	Sharpe et al.			6/4/92
	AE	5,696,135	12/9/97	Steiner et al.			5/28/96
	AF	5,654,332	8/5/97	Armistead et al.			6/8/95
	AG	5,620,971	4/15/97	Armistead et al.			3/25/94
	AH	5,614,547	3/25/97	Hamilton et al.			6/7/95
	AI	5,604,294	2/18/97	Luly et al.			3/14/94
	AJ	5,599,927	2/4/97	Or et al.			12/15/95
	AK	5,585,397	12/17/96	Tung et al.			3/17/94
	AL	5,543,423	8/6/96	Zelle et al.			1/23/95
	AM	5,516,797	5/14/96	Armistead et al.			4/11/94
	AN	5,506,243	4/9/96	Ando et al.			4/28/94
W	AO	5,504,197	4/2/96	Schubert et al.			3/22/93

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub-Class	Translation

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Examiner

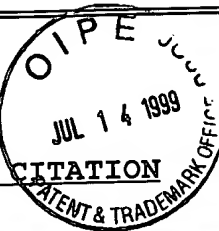
Date Considered

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11/29/89

FORM PTO-1449

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09/204,238Applicant  
HAMILTON, NORMAN, WUFiling Date  
12/3/98Group Art Unit  
1614

## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date
W	BA	5,472,687	12/5/95	Proctor			2/7/94
	BB	5,453,437	9/26/95	Schohe et al.			9/8/93
	BC	5,359,138	10/25/94	Takeuchi et al.			6/29/92
	BD	5,342,942	8/30/94	Jaen et al.			3/29/93
	BF	5,330,993	7/19/94	Armistead et al.			7/2/91
	BF	5,232,923	8/3/93	Fukazawa et al.			4/22/91
	BG	5,215,969	6/1/93	Springer et al.			12/9/91
	BH	5,214,034	5/25/93	Nakayama et al.			12/3/91
	BI	5,192,773	3/9/93	Armistead et al.			7/2/90
	BJ	5,166,317	11/24/92	Wallace et al.			10/31/88
	BK	5,002,964	3/26/91	Loscalzo			6/15/88
W	BL	5,002,963	3/26/91	De Luca et al.			6/1/88

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub-Class	Translation

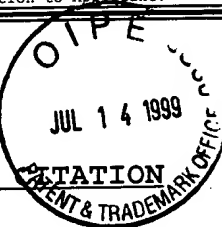
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Examiner				Date Considered	4/29/99
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 Applicant  
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 12/3/98

 Group Art Unit  
 1614

## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date
<i>u</i>	CA	4,745,124	5/17/88	Ryan et al.			7/20/83
<i>u</i>	CB	4,734,420	3/29/88	Ryan et al.			5/2/80
<i>u</i>	CC	4,692,458	9/8/87	Ryan et al.			3/5/80

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub-Class	Translation

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)


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